CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. R2-2002-0041
UPDATED WASTE DISCHARGE REQUIREMENTS AND
RECISION OF ORDER NO. 97-050 FOR:

PLEASANTON GARBAGE SERVICE INC.
OLD PLEASANTON LANDFILL
PLEASANTON, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board), finds that:

SITE OWNER AND LOCATION

1. The Pleasanton Garbage Service, Inc. (PGSI), hereinafter referred to as the Discharger, owns and operated a closed Class III municipal solid waste disposal site referred to as the Old Pleasanton Landfill (the site). The site is a privately owned landfill located at 2512 Vineyard Avenue, east of Pleasanton and south of Arroyo del Valle creek in Alameda County (Figure 1). No waste has been disposed of at this landfill since its closure in 1976.

PURPOSE OF ORDER UPDATE

2. The primary purposes of this Order are to update the existing Waste Discharge Requirements (WDRs), to implement corrective action for an identified discharge past the site's point of compliance (the vertical surface located at the hydraulically downgradient limit of a waste management unit) and to assure compliance with the appropriate portions of Title 27 of the California Code Of Regulations (formerly known as Chapter 15, Title 23), referred to hereinafter as Title 27. The "appropriate portions" of Title 27 are herby defined as the relevant sections pertaining to post closure maintenance, water quality monitoring, and corrective action.

SITE DESCRIPTION

4. 3. The landfill covers approximately 13 acres on an irregularly shaped 23-acre parcel having a maximum width of approximately 900 feet in the east-west direction and a maximum length of about 1800 feet in the north-south direction (Figure 2). The site is considered a closed facility and has been covered with approximately 2 feet of red clay soil. The site does not have a liner, leachate extraction system, or leachate monitoring wells. However, the landfill has a totally enclosed landfill gas flare and twelve landfill gas extraction wells operated near the southeast corner of the site.

4. The site is bordered by a residential development along its southern boundary, two single-family dwellings on the east-adjacent property, and a single-family dwelling

hydrogeologically downgradient and north of the landfill. The western-adjacent property is currently undeveloped.

REGULATORY HISTORY

5. In 1971, the Regional Board first adopted Waste Discharge Requirements (Order Number 71-19) for the site. The Order described the type and quantity of waste disposed of at the site and established Beneficial Uses for the Arroyo Del Valle creek and local groundwater.

6. In 1978, the Regional Board issued updated Waste Discharge Requirements, Order Number 78-60. The Order addressed landfill closure activities in accordance with Resolution 77-7.

7. In 1997, The Regional Board issued updated Waste Discharge Requirements, Order Number 97-050. The Order established requirements for a groundwater monitoring program, landfill gas evaluation, and proper grading of the site to promote runoff.

LANDFILL HISTORY

8. The Old Pleasanton Landfill was originally owned and operated by a Mr. Pietronave (now deceased) from 1950 to 1969. No records are available prior to 1950 to document the landfill operations. In 1969, PGSI purchased the 23-acre parcel, currently occupied by the landfill, from Mr. Pietronave. PGSI continued operation of the landfill until its closure in May 1976. The approximate configuration of the landfill is presented in Figure 2.

9. The method of operation during the site's development was a fill and cover approach in a canyon/gully terrain. The volume of refuse in-place is estimated at 210,000 tons. The average depth of fill is approximately 25 to 30 feet, with a maximum depth of about 80 to 90 feet in a limited area near the center of the property. The landfill received household garbage, rubbish, demolition and construction waste, brush, stumps, large appliances, and street refuse. The approximate breakdown of solid waste received was estimated at 70 percent residential, 25 percent commercial, and 5 percent demolition/construction debris. Other special wastes received include mixed municipal sludge and septage, water softener brine, cheese whey, and rinsed pesticide containers. Types of wastes excluded from the landfill included junked vehicles, infectious and pathological wastes, liquids, and chemical toilet pumpings.

SITE GEOLOGIC SETTING

10. The Livermore Valley, which is centrally located within the Coast Ranges geomorphic province, separates the Diablo Range into a northern and a central range. The Altamont Hills and Mount Diablo comprise the northern range, whereas Mount Hamilton comprises a large portion of the central range. Both Mount Diablo and the central Diablo Range are antiformal structures cored by ultramafic rocks and Jurassic and Cretaceous sedimentary rocks, with Cenozoic sedimentary rocks flanking the sides. The lithology of

the hills bordering the Livermore Valley is comprised of rocks associated with the Jurassic-Cretaceous Franciscan Complex, the Jurassic-Cretaceous Great Valley Group, and several Cenozoic sedimentary formations. The Livermore Valley itself is a structural trough filled with Miocene and younger gravel-bearing formations, the most prominent being the Livermore Gravels. The Livermore Gravels consists of pebbly gravels, sandstone, and fine-grained rocks deposited in the basin during the late Miocene and Pleistocene in a braided stream environment. In the area of the landfill, the northern portion of the site consists of terrace deposits, whereas the southern portion was identified as the northwest-southeast trending Livermore Gravels. The Livermore Gravels dip approximately 18 degrees to the northeast.

11. The site is located between two Holocene (Active<10,000 years before present) faults, the Calaveras and Greenville Faults, located approximately 4 miles to the west and 9 miles to the east of the site, respectively. Other Holocene faults in the area include the Hayward and San Andreas Faults, located approximately 9 and 25 miles west of the site, respectively. Based on the proximity of these faults to the landfill, earthquakes on these faults could potentially cause damage to structures at the site.

19. SITE HYDROGEOLOGIC SETTING

17. 12. The Livermore Valley groundwater basin has been divided into twelve individual subbasins on the basis of local fault traces and hydrogeologic discontinuities. The Old Pleasanton Landfill is located in the Amador subbasin. The Amador subbasin is drained by Arroyo Del Valle and Arroyo Mocho creeks, the principal streams of the Livermore Valley. The terrace deposits in the southern portion of the site have been characterized as having low to high permeability characteristics. In contrast, the Livermore Gravel deposits, located in the northern portion of the site are described as being permeable, with deeper water-bearing zones providing yields sufficient for most irrigation, industrial and municipal purposes. Groundwater at the landfill generally flows north toward Arroyo Del Valle. Site groundwater elevations and quality is measured by wells W-1, W-2, W-3A, W-4, W-5, W-6, W-7, W-8, W-9, W-10, W-11, W-12, W-13, W-14, W-15, W-16, and W-17. Groundwater at the site generally occurs beneath refuse with minor, isolated, and perched lenses. No leachate wells exist at the site.

GROUNDWATER CONTAMINATION AND WATER QUALITY

13. Groundwater quality has been degraded with various volatile organic compounds (VOCs) at four locations along the site's northern and eastern points of compliance. Cis-1,2-dichloroethene has been consistently detected at each of the four locations at concentrations ranging from 1.7 to 14 micrograms per liter (ug/L). Other VOCs identified at the site have included: chlorobenzene (ND to 1.4 ug/L); 1,4-dichlorobenzene (ND to 1.4 ug/L); 1,1-dichloroethane (ND to 0.62 ug/L); dichlorodifluoromethane (ND to 2.7 ug/L); tetrachloroethene (ND to 0.93 ug/L); trichloroethene (ND to 0.59 ug/L); and vinyl chloride (ND to 0.93 ug/l). Of these VOCs, exceedance of California maximum contaminant levels (MCLs) have been documented for cis 1,2-dichloroethene (MCL = 6 ug/L) and vinyl chloride (MCL = 0.5 ug/L). The inorganic constituent nitrate was detected at concentrations as high as 185 milligrams per liter (mg/L), exceeding the California primary MCL of 45 mg/L. Nitrate impairments are confined to the north and hydrogeologically downgradient of the landfill, past the landfill's point of compliance. A domestic water supply well is located downgradient and north of the landfill (Figure 2) within the nitrate plume. The Discharger has informed the property owner of the nitrate impairment, and abandonment of this well is addressed as part of this Order.

CURRENT AND FUTURE LAND USES

14. The site is classified as a closed Class III (Solid Waste Information List [SWIS] No. 01-AA-0020) landfill and is currently undeveloped open space. The City of Pleasanton has considered developing the site as a recreational park, however no definitive plans have been proposed.

MONITORING PROGRAMS

15. **Groundwater Monitoring** – The site contains seventeen groundwater-monitoring wells (W-1, W-2, W-3A, W-4, W-5, W-6, W-7, W-8, W-9, W-10, W-11, W-12, W-13, W-14, W-15, W-16, and W-17). The groundwater-monitoring program is detailed in the Discharge Monitoring Plan attached to this Order (Attachment A). The Discharger is required to analyze for the monitoring parameters as presented in **Attachment A** of this Order.

16. **Leachate Monitoring** – The site contains no leachate monitoring wells.

17. **Surface Water Monitoring** – There are two surface water-monitoring points (SW-1 & SW-2) that monitor water quality within the Arroyo Del Valle. Surface water monitoring shall be conducted as part of the Discharge Monitoring Plan attached to this Order (Attachment A).

18. **Corrective Action Program** - The landfill is currently in corrective action for a VOC release to groundwater beyond the north-northwest point of compliance. The discharger has proposed utilizing an enhanced gas extraction system within the refuse mass as a corrective action measure for the release. Additionally, nitrate impairments along the

north-northeast point of compliance will be further evaluated as part of this order (Provision C8).

BASIN PLAN

19. The Regional Board adopted a revised Water Quality Plan for the San Francisco Bay Basin (Basin Plan) in June 21, 1995. This updated and consolidated plan represents the Board's master water quality control planning document. The State Water Resource Control Board and the Office of the Administrative Law approved the revised Basin Plan on July 20 and November 13, respectively, of 1995. A summary of regulatory provisions is contained in Title 23 of the California Code of Regulations, Section 3912. The Basin Plan defines beneficial uses and water quality objectives for waters of the State, including surface waters and groundwaters.

20. Board Resolution No. 89-39, "Sources of Drinking Water," defines potential sources of drinking water to include all groundwater in the region, with limited exceptions for areas containing high TDS, high background contaminant levels, or those areas with a low-yield. As such, any groundwater at the site meeting Resolution 89-39 requirements of TDS concentrations below 3000 mg/L, electrical conductivities below 5,000 micro-Siemens per centimeter, and with production yields greater that 200 gallons per day will be considered a potential drinking water source. Currently groundwater in the vicinity of the site is used for domestic water supply.

BENEFICIAL USES

21. The existing and potential beneficial uses of the Arroyo Del Valle include:

    a. Agricultural Supply;
    b. Warm Freshwater Habitat;
    c. Freshwater Replenishment;
    d. Groundwater Recharge;
    e. Industrial Service Supply;
    f. Fish Migration;
    g. Municipal and Domestic Supply;
    h. Industrial Process Supply;
    i. Preservation of Rare and Endangered Species;
    j. Water Contact Recreation;
    k. Noncontact Water Recreation;
    l. Fish Spawning; and,
    m. Wildlife Habitat.

    The present and potential beneficial uses of groundwater meeting Resolution 89-39 requirements are as follows:

    a. Domestic and municipal water supply;
    b. Freshwater Replenishment;

c. Industrial Process supply;
d. Industrial Service supply; and
e. Agricultural supply.

CALIFORNIA ENVIRONMENTAL QUALITY ACT

22. The Regional Board finds that this site is exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to §15301, Title 14 of the California Code of Regulations.

PUBLIC NOTICE

23. The Board has notified the Discharger and interested agencies and persons of its intent to issue waste discharge requirements for the Discharger and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

PUBLIC MEETING

24. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Discharger, its agents, successors and assigns shall meet the applicable provisions contained in Title 27, Division 2, Subdivision 1 of the California Code of Regulations and Division 7 of the California Water Code and shall comply with the following:

A. PROHIBITIONS

1. Waste shall not be in contact with ponded water from any source whatsoever.

2. The site is regulated as a closed facility. Therefore, no further waste shall be deposited or stored at this site.

3. Leachate from waste and ponded water containing leachate or in contact with solid wastes shall not be discharged to waters of the State or of the United States.

4. Neither the treatment nor the discharge of waste shall create a condition of pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code (CWC). (H & SC Section 5411, CWC Section 13263)

5. The Discharger, or any future owner or operator of the site, shall not cause the following conditions to exist in waters of the State at any place outside the waste management facility:

    a. Surface Waters

1. Floating, suspended, or deposited macroscopic particulate matter or foam.

2. Bottom deposits or aquatic growths.

3. Alteration of temperature, turbidity, or apparent color beyond natural background levels.

4. Visible, floating, suspended or deposited oil or other products of petroleum origin.

5. Toxic or other deleterious substances to be present in concentrations or quantities which may cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentrations.

b. Groundwater

Groundwater shall not be impaired as a result of waste degradation.

B. **SPECIFICATIONS**

1. All reports pursuant to this order shall be prepared under the supervision of a registered civil engineer, California registered geologist or certified engineering geologist.

2. Surface drainage from tributary areas and internal site drainage from surface or subsurface sources shall not contact or percolate through wastes during the life of the site.

3. The existing containment, drainage, landfill gas, leachate collection, and monitoring systems at the facility, shall be operated and/or maintained as long as leachate and landfill gas is present and poses a threat to water quality. In the event these existing features are found to be ineffective at resolving impairments to groundwater, the discharger may be required to take additional corrective actions.

4. The Discharger shall assure that any modifications to foundation of the site, the solid waste fill, and structures, which control leachate, surface drainage, erosion, and gas are constructed to relevant engineering criteria. Furthermore, new structures shall be constructed in compliance with approved engineering criteria.

5. The final cover system shall be graded and maintained to promote lateral runoff and prevent ponding and infiltration of water.

6. The Discharger shall analyze the samples from the existing groundwater wells as outlined in the Discharge Monitoring Program (Attachment A).

7. In the event of a new release of a constituent of concern beyond the Point of Compliance (Section 20405, Title 27), the site begins a Compliance Period (Section 20410, Title 27). During the Compliance Period, the Discharger shall perform an Evaluation Monitoring Program and a Corrective Action Program. The Point of Compliance is defined as the vertical surface located along the hydraulically downgradient limit of the waste management unit and extending through the uppermost aquifer underlying the unit.

8. The Discharger shall install any reasonable additional groundwater and leachate monitoring devices required to fulfill the terms of any future Discharge Monitoring Program issued by the Executive Officer.

9. Landfill gases shall be adequately vented, removed from the landfill, or otherwise controlled to minimize the danger of explosion, adverse health effects, nuisance conditions, or the impairment of beneficial uses of water.

10. The Discharger is subject to performance standards adopted by the California Integrated Waste Management Board for post-closure land use, which specify that the maintenance and design of devices and features installed in accordance with this order continue to operate as intended without interruption.

11. The Discharger shall provide a minimum of two surveyed permanent monuments near the landfill from which the location and elevation of wastes, containment structures, and monitoring facilities can be determined throughout the operation and post-closure maintenance period. A licensed land surveyor or registered civil engineer shall install these monuments.

12. The Regional Board shall be notified immediately of any failure occurring in the waste management unit. Any failure that threatens the integrity of containment features or the landfill shall be promptly corrected after approval of the method and schedule by the Executive Officer.

13. The Discharger shall maintain the facility so as to prevent a statistically significant increase in water quality parameters at points of compliance as provided in Section 20415 (e) (7) of Title 27.

C. PROVISIONS

1. The Discharger shall comply with all Prohibitions, Specifications and Provisions of this Order. All required submittals must be acceptable to the Executive Officer. The Discharger must also comply with all conditions of these Waste Discharge Requirements. Violations may result in enforcement actions, including Regional Board orders or court orders requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board. (CWC Section 13261, 13263, 13265, 13267, 13268, 13300, 13301, 13304, 13340, 13350).

2. All technical and monitoring reports required to be submitted pursuant to this Order are being requested pursuant to Section 13267 of the California Water Code. Failure to

submit reports in accordance with schedules established by this Order or failure to submit a report of sufficient technical quality to be acceptable to the Executive Officer may subject the Discharger to enforcement action pursuant to Section 13268 of the California Water Code.

3. The Discharger shall file with the Regional Board, Discharger Monitoring Reports, performed according to the attached Discharge Monitoring Program issued by the Executive Officer. The Executive Officer may amend the Discharge Monitoring Plan at any time, as water quality conditions warrant.

4. The Discharger shall submit a **Landfill Gas Remediation Plan Implementation Schedule**, acceptable to the Executive Officer by April 30, 2002 for the report titled Landfill Gas Remediation Plan (March 2001) as revised in the Addendum to Landfill Gas Remediation Plan (January 2002).

REPORT DUE DATE: April 30, 2002

5. The Discharger shall submit a **Landfill Gas Remediation System Completion Report**, acceptable to the Executive Officer. The report shall include, but not be limited to, a discussion of remedial activities, As-Built construction drawings, and, landfill gas well logs.

REPORT DUE DATE: 90 Days Following the Scheduled Completion Date as Outlined in the Landfill Gas Remediation Plan Implementation Schedule (Provision 4)

6. The Discharger shall submit a plan and a time schedule for the abandonment of the domestic well located on the Costas Property (Figure 2).

REPORT DUE DATE: April 30, 2002

7. The Discharger shall submit a **Well Abandonment Completion Report**, acceptable to the Executive Officer 60 days following well abandonment activities.

REPORT DUE DATE: 60 Days Following Well Abandonment Activities

8. The Discharger shall submit a **Well and Leach Field Survey**, acceptable to the Executive Office by July 31, 2002. The report shall include but not necessarily be limited to the following:

- A well and leach field survey with a ¼ mile radius from the landfill;
- An assessment on the potential for any identified wells to act as a vertical conduit for groundwater contamination at the landfill;
- A map depicting the location and type (domestic, monitoring, agricultural, industrial, etc.) of identified wells including the location of any identified leach fields;
- Copies of all well logs; and,

- If necessary, recommendations for additional groundwater well sampling.

REPORT DUE DATE: July 31, 2002

9. The Discharger shall submit, for approval, a **Corrective Action Evaluation Report**, acceptable to the Executive Officer, documenting the effectiveness of the landfill gas extraction system for remediation of the observed VOC impairments at the site. The report shall also propose any additional corrective actions necessary to control groundwater impairments and to further meet relevant drinking water quality objectives at the site.

REPORT DUE DATE: July 31, 2003

10. The Discharger shall submit an **Annual Monitoring Report**, acceptable to the Executive Officer, by April 30 of each year in accordance with the attached Discharge Monitoring Program (Attachment A). The annual report to the Board shall cover the previous calendar year as described in Part A of the Discharge Monitoring Program. Furthermore, the Discharger shall submit semi-annual monitoring reports, to be submitted no later than April 30 and October 31 of each year; the April 30 semi-annual report may be combined with the annual report. The semi-annual propose shall document any proposed maintenance activities for the upcoming monitoring period.

REPORT DUE DATES:

SEMI-ANNUAL AND ANNUAL REPORTS:
ANNUAL REPORT– April 30 (Each Year)
SEMI-ANNUAL REPORT – April 30 and October 31 (Each Year)

11. Groundwater elevations shall be measured quarterly (January, April, July, and October) and reported in the semi-annual self-monitoring report. Data compiled from groundwater/leachate elevations shall be presented in a tabular format and referenced on the groundwater contour map (i.e., groundwater monitoring well ID and head elevation in feet above/below mean sea level (MSL)). Tabular data shall include but not be limited to: well ID, date measured, time measured, and groundwater/leachate elevations in MSL.

REPORT DUE DATES:

COMBINED WITH THE SEMI-ANNUAL AND ANNUAL
SELF MONITORING REPORTS – April 30 and October 31(Each Year)

12. The Discharger or the developer under the direction of the Discharger shall prepare and submit a **Development Proposal**, acceptable to the Executive Officer, for any proposed development at the landfill.

REPORT DUE DATE: 90 days prior to commencement of construction

13. The Discharger shall immediately notify the Board of any flooding, equipment failure, slope failure, or other change in site conditions that could impair the integrity of waste or leachate containment facilities or precipitation and drainage control structures.

REPORT DUE DATE: Immediately

14. For each proposed development, the Discharger or the developer under the direction of the Discharger shall prepare, implement and submit a **Storm Water Pollution Prevention Plan** in accordance with requirements specified in State Water Resources Control Board General Permit for Storm Water Discharges Associated with Construction Activities (NPDES Permit No. CAS000002).

COMPLIANCE DUE DATE: 45 days prior to commencement of construction

15. The Discharger shall submit a **Well Installation Report**, acceptable to the Executive Officer, that provides well construction details, geologic boring logs, and well development logs for all new wells installed as part of the attached Discharge Monitoring Program (Attachment A).

COMPLIANCE DUE DATE: 45 days following completion of well installation activities

16. The Discharger shall maintain a copy of these waste discharge requirements and these requirements shall be available to site personnel at the facility office at all times. (CWC Section 13263).

17. This Board considers the property owner and site operator to have continuing responsibility for correcting any problems that arise in the future as a result of the waste discharged or related operations.

18. The Discharger shall permit the Regional Board or its authorized representative, upon presentation of credentials, during normal business hours:

    a. Immediate entry upon the premises on which wastes are located or in which any required records are kept.
    b. Access to copy any records required to be kept under the terms and conditions of this order.
    c. Inspection of any treatment equipment, monitoring equipment, or monitoring methods required by this order or by any other California State Agency.
    d. Sampling of any discharge or groundwater governed by this order.

19. The Discharger shall notify the succeeding owners or operators of this Order by letter in the event of any change in control, ownership of land, or waste discharge facilities presently owned or controlled by the Discharger. The Discharger must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger. The notice must include a written agreement between the existing Discharger and new dischargers containing a

specific date for the transfer of this order's responsibility and coverage between the current Discharger and the new dischargers. This agreement shall include an acknowledgment that the existing Discharger is liable for violations up to the transfer date and that the new dischargers are liable from the transfer date on. (CWC Sections 13267 and 13263). The request must contain the requesting entity's full legal name, and the address and telephone number of the persons responsible for contact with the Board. Failure to submit the request shall be considered a discharge without requirements, a violation of the California Water Code.

20. This Order is subject to Board review and updating, as necessary, to comply with changing State and Federal laws, regulations, policies, or guidelines; changes in the Board's Basin Plan; or changes in the discharge characteristics (CWC Section 13263).

21. Where the Discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information (CWC Sections 13260 and 13267).

22. This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, do not protect the Discharger from his liability under Federal, State or local laws, nor do they create a vested right for the Discharger to continue the waste discharge [CWC Section 13263(g)].

23. Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

24. The Discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Discharger to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this order [CWC Section 13263(f)].

25. Except for a discharge which is in compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the state toxic disaster contingency plan adopted pursuant to Article 3.7 (commencing with Section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not

require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of Section 13271 of the Water Code unless the Discharger is in violation of a prohibition in the applicable Water Quality Control Plan [CWC Section 13271(a)].

26. The Discharger shall report any noncompliance that may endanger health or the environment. Any such information shall be provided orally to the Executive officer within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours [CWC Sections 13263 and 13267].

27. All monitoring instruments and devices used by the Discharger to fulfill the prescribed Discharge Monitoring Program (Attachment A) shall be properly maintained and calibrated as necessary to ensure their continued accuracy.

28. Unless otherwise permitted by the Regional Board Executive officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. The Executive Officer may allow use of an uncertified laboratory under exceptional circumstances, such as when the closest laboratory to the monitoring location is outside the State boundaries and therefore not subject to certification. All analyses shall be required to be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" (40 CFR, Part 1360) promulgated by the U.S. Environmental Protection Agency (CCR Title 23, Section 2230).

29. Board Order No. 97-050 is hereby rescinded.

I, Loretta K. Barsamian, Executive Officer, do hereby certify that the foregoing is a full, complete, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 20, 2002.

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Loretta K. Barsamian
Executive Officer

Figures: Figure 1 – Site Location Map
Figure 2 – Site Plan

Attachment: Attachment A - Discharge Monitoring Program

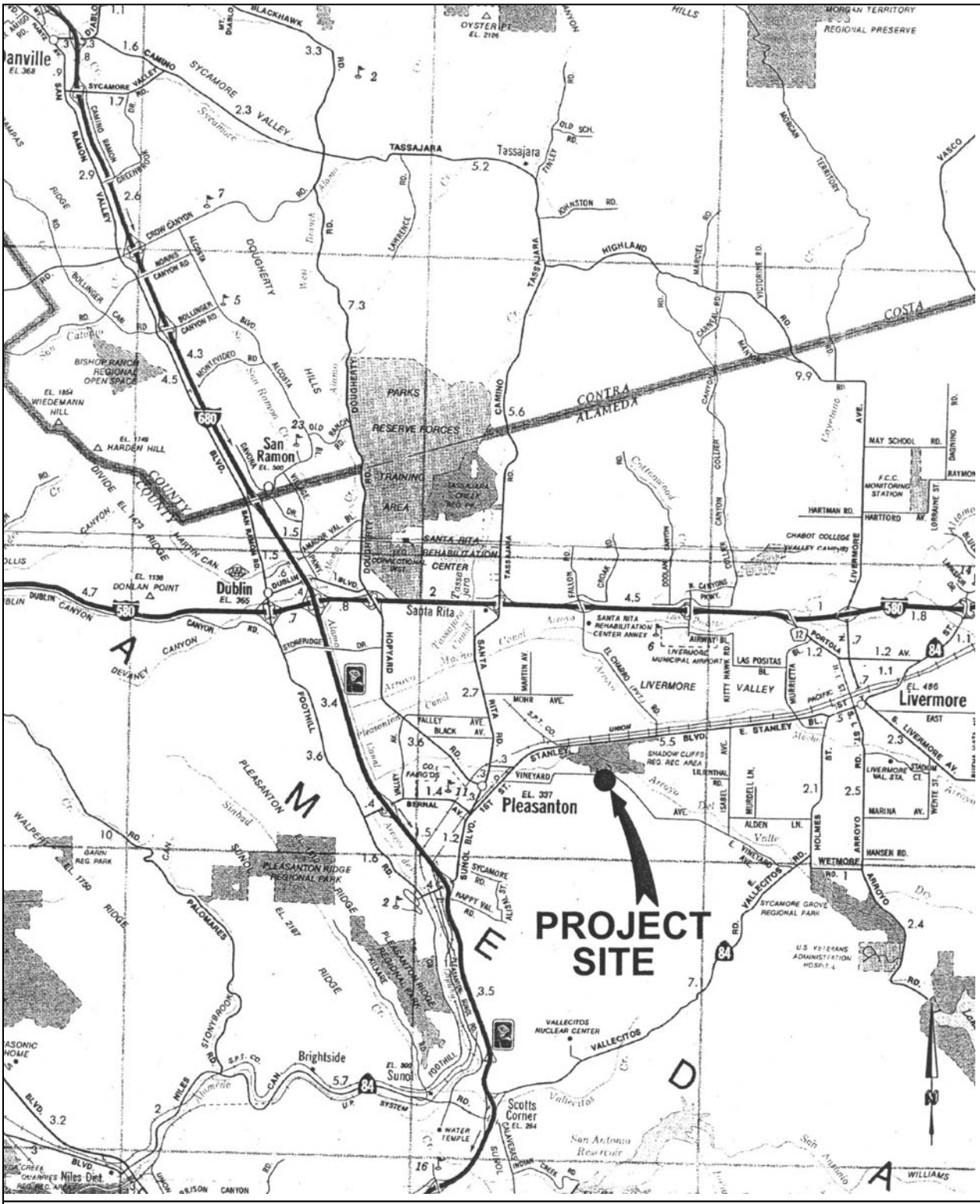

Figure 1 – Site Location Map

Old Pleasanton Landfill
Alameda County, California

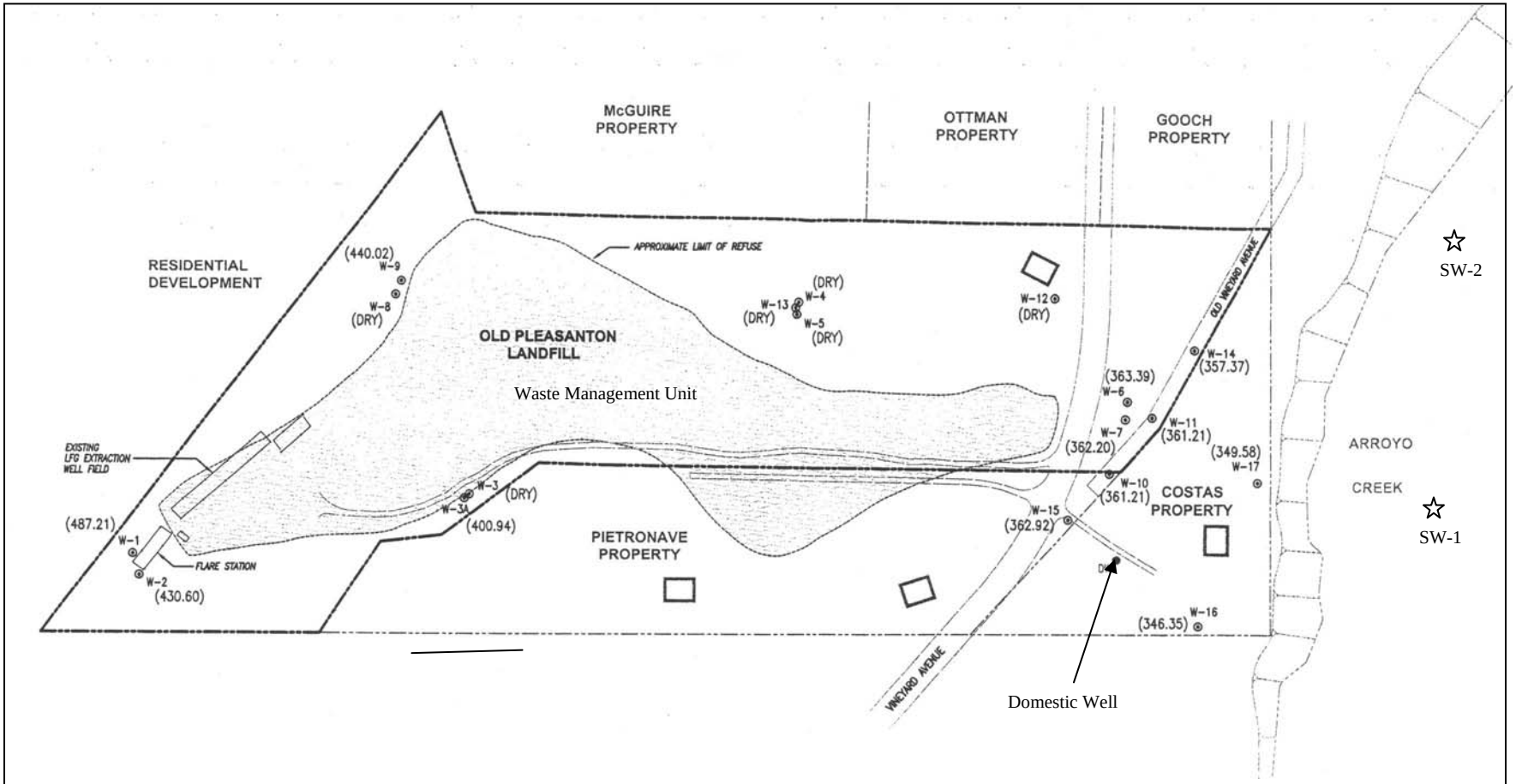

Figure 2 – Site Plan

Old Pleasanton Landfill
Alameda County, California

N

Scale in Feet

0 200 400

W-1 Groundwater Well

SW-1 Surface Water Monitoring Point

Landfill Property Line

Other Property Lines

ATTACHMENT A

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

DISCHARGE MONITORING PROGRAM

FOR

OLD PLEASANTON LANDFILL
PLEASANTON, ALAMEDA COUNTY

ORDER NO. R2-2002-0041

CONSISTS OF

PART A

AND

PART B

PART A

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16. This Discharge Monitoring Program is issued in accordance with Order R2-2002-0041.

The principal purposes of a Discharge Monitoring Program are: (1) to document compliance with waste discharge requirements and prohibitions established by the Board, (2) to facilitate self-policing by the waste Discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of standards of performance, and toxicity standards, (4) to assist the Discharger in complying with the appropriate portions of Title 27.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the most recent version of EPA Standard Methods and in accordance with an approved sampling and analysis plan.

Water and waste analysis shall be performed by a laboratory approved for these analyses by the State of California. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory. This individual, or an authorized representative, shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is a discrete sample collected at any time.

2. Receiving waters refers to any surface water which actually or potentially receives surface or groundwaters which pass over, through, or under waste materials or contaminated soils. In this case the groundwater beneath and adjacent to the landfill areas, the surface runoff from the site, and Arroyo Del Valle are considered receiving waters.

3. Standard observations refer to:

a. Receiving Waters

1) Floating and suspended materials of waste origin: presence or absence, source, and size of affected area;
2) Discoloration and turbidity: description of color, source, and size of affected area;
3) Evidence of odors, presence or absence, characterization, source, and distance of travel from source;
4) Evidence of beneficial use: presence of water associated wildlife.
5) Flow rate; and,
6) Weather conditions: wind direction and estimated velocity, total precipitation during the previous five days and on the day of observation.

b. Perimeter of the waste management unit.

1) Evidence of liquid leaving or entering the waste management unit, estimated size of affected area and flow rate; (Show affected area on map)
2) Evidence of odors, presence or absence, characterization, source, and distance of travel from source; and,
3) Evidence of erosion and/or daylighted refuse.

c. The waste management unit.

1) Evidence of ponded water at any point on the waste management facility;
2) Evidence of odors, presence or absence, characterization, source, and distance of travel from source;
3) Evidence of erosion, slope or ground movement, and/or daylighted refuse;
4) Adequacy of access road;
5) Condition of site drains; and,
6) Standard Analysis and measurements are listed on Table A (attached).

D. SAMPLING, ANALYSIS, AND OBSERVATIONS

The Discharger is required to perform sampling, analyses, and observations in the following media:

1. Surface water discharges (if applicable)
2. Groundwater and leachate (if applicable)

E. RECORDS TO BE MAINTAINED

Written reports shall be maintained by the Discharger or laboratory, and shall be retained for a minimum of five years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board. Such records shall show the following for each sample:

1. Identity of sample and sample station number.

2. Date and time of sampling.

3. Date and time that analyses are started and completed, and name of the personnel performing the analyses.

4. Complete procedure used, including method of preserving the sample, and the identity and volumes of reagents used.

5. Calculation of results.

6. Results of analyses, and detection limits for each analysis.

F. REPORTS TO BE FILED WITH THE BOARD

1. Written reports required by Provisions C (2) & (3) of Order R2-2002-0041 shall be filed by **April 30** and **October 31** of each year. In addition an annual report shall be filed by **April 30** of each year and may be combined with the April 30 semi-annual monitoring report. The reports shall be comprised of the following:

   a. Letter of Transmittal

      A letter transmitting the essential points in each report should accompany each report. Such a letter shall include a discussion of any requirement violations found during the last report period, and actions taken or planned for correcting the violations. If the Discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred in the last report period this shall be stated in the letter of transmittal. Monitoring reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer at the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct.

   b. Each monitoring report shall include a compliance evaluation summary. The summary shall contain:

      1) A graphical description of the groundwater and leachate gradients and flow direction under/around and within the waste management unit, based upon water level elevations and pertinent visual observations.

      2) The method and time of water level measurement, the type of pump used for purging, pump placement in the well; method of purging, pumping

rate, equipment and methods used to monitor field pH, temperature, and conductivity during purging, calibration of the field equipment, results of the pH, temperature conductivity and turbidity testing, well recovery time, and method of disposing of the purge water.

3) Type of pump used, pump placement for sampling, a detailed description of the sampling procedure; number and description of equipment, field and travel blanks; number and description of duplicate samples; type of sample containers and preservatives used, the date and time of sampling, the name and qualifications of the person actually taking the samples, and any other observations.

c. A map or aerial photograph shall accompany each report showing observation and monitoring station locations.

d. Laboratory statements of results of analyses specified in Part B must be included in each report. The director or authorized representative of the laboratory whose name appears on the laboratory certification shall supervise all analytical work in his/her laboratory. This individual, or an authorized representative, shall sign all reports of such work submitted to the Regional Board.

1) The methods of analyses and detection limits must be appropriate for the expected concentrations. Specific methods of analyses must be identified. If methods other than EPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and approved by the Executive Officer prior to use.

2) In addition to the results of the analyses, laboratory quality assurance/quality control (QA/QC) information must be included in the monitoring report. The laboratory QA/QC information should include the method, equipment and analytical detection limits; the recovery rates; an explanation for any recovery rate that is less than 80%; the results of equipment and method blanks; the results of spiked and surrogate samples; the frequency of quality control analysis; and the name and qualifications of the person(s) performing the analyses.

e. Section F (1) (d) of this Discharge Monitoring Program and tabulated historical groundwater data (elevations & organic/inorganic chemistry) shall be included in each semi-annual/annual monitoring report in a universal electronic format.

f. An evaluation of the effectiveness of the leachate monitoring facilities.

g. A summary and certification of completion of all standard observations for the waste management unit, the perimeter of the waste management unit, and the receiving waters.

2. CONTINGENCY REPORTING

A report shall be made by telephone of any **seepage** from the disposal area immediately after it is discovered. A written report shall be filed with the Board within **five days** thereafter. This report shall contain the following information:

1) a map showing the location(s) of discharge if any;
2) approximate flow rate;
3) nature of effects; i.e. all pertinent observations and analyses; and
4) corrective measures underway, proposed, or as specified in the Waste Discharge Requirements.

3. REPORTING

By **April 30** of each year the Discharger shall submit an annual report to the Board covering the previous calendar year. The annual report may incorporate the first semi-annual monitoring report. The annual report shall contain:

a. Tabular and graphical summaries of the monitoring data obtained during the previous year; the report should be accompanied by a computer data disk (CD-ROM), tabulating the year's data in a universal electronic format.

b. A comprehensive discussion of the compliance record, and the corrective actions taken or planned which may be needed to bring the Discharger into full compliance with the waste discharge requirements.

c. A written summary of the groundwater analyses indicating any change in the quality of the groundwater.

d. If applicable, an evaluation of leachate buildup within the landfill.

4. WELL LOGS

A boring log and a monitoring well construction log shall be submitted for each new sampling well established for this monitoring program, as well as a report of inspection or certification that each well has been constructed in accordance with the construction standards of the Department of Water Resources. These shall be submitted within 45 days after well installation.

Part B

1. DESCRIPTION OF OBSERVATION STATIONS AND SCHEDULE OF OBSERVATIONS

A. ON-SITE OBSERVATIONS – Observe quarterly, Report Semi-annually

STATION	DESCRIPTION	OBSERVATIONS	FREQUENCY
Standard Observations:			
A-1 to A-'n'	Located on the area as delineated by a 500 foot grid network.	Standard observations for the waste management unit as defined in Part A, Section C.	Quarterly
Interior Seeps:			
L-1 thru L-'n'	At each point of discharge. include a map indicating locations of discharge(s)	Sample all parameters as outlined in Table A. (Perform Once per seep)	Observe weekly, following discovery, until remedial action is taken and seepage. ceases
Perimeter Observations:			
P-1 thru P-'n'	Located at equidistant intervals not exceeding 1000 feet around the perimeter of the waste management unit.	Standard observations for the perimeter as defined in Part A, Section C.	Quarterly
Perimeter Seeps:			
S-1 thru S-'n'	At any point(s) at which seepage is found occurring from the disposal area. Include a map indicating locations of discharge(s)	Sample all parameters as outlined in Table A (perform analysis) once per seep)	Observe weekly, following discovery, until remedial action is taken and seepage ceases.

B. <u>SURFACE, GROUNDWATER, VADOSE ZONE AND LEACHATE MONITORING</u> (Report Semi-annually)

i. Surface and Stormwater: Surface water shall be monitored as outlined in Table A (Attached).

Monitoring Points:

Surface Water	SW-1 and SW-2

ii. Groundwater: Groundwater samples shall be analyzed as outlined in Table A (Attached). Groundwater elevations shall be recorded quarterly (January, April, July, and October) and reported semi-annually in the April and October semi-annual monitoring reports.

Monitoring Points:

Groundwater	W-1, W-2, W-3A, W-4, W-5, W-6, W-7, W-8, W-9, W-10, W-11, W-12, W-13, W-14, W-15, W-16, and W-17

iii. Leachate: Leachate is not monitored at the site.

Monitoring Points:

Leachate	No Leachate Wells

C. <u>FACILITIES MONITORING</u>

The Discharger shall inspect all facilities to ensure proper and safe operation once per quarter and report semi-annually.

D. MONITORING REPORT SCHEDULE

Reports shall be due on the following schedule:

First semi-annual report:	**April 30 of each year**
Second semi-annual Report:	**October 31 of each year**
Annual Report:	**Combined with the first semi-annual report, due April 30 of each year**

I, Loretta K. Barsamian, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in this Board's Order No. R2-2002-0041.

2. Is effective on the date shown below.

3. May be reviewed or modified at any time subsequent to the effective date, upon written notice from the Executive Officer.

_____
Loretta K. Barsamian

Executive Officer

Date Ordered: March 20, 2002

Attachment: Table A - Schedule for Sampling, Measurement, and Analysis

Table A - Discharge Monitoring Plan, List of Analytical Parameters, Surface, Stormwater, Leachate and Groundwater

Field/Inorganic (Non-Metals) Parameters	Method[1]	Frequency
pH	Field	Semi-Annual
Electrical conductivity	Field	Semi-Annual
Temperature	Field	Semi-Annual
Groundwater Elevations	Field	Quarterly
Total Dissolved Solids	160.1	Semi-Annual
Chloride	300.0	Semi-Annual
Nitrate	300.0	Semi-Annual

Organics/Pesticides/ PCBs	Method[1]	Frequency
Volatile Organic Compounds	8260	Semi-Annual
Organochlorine Pesticides & PCBs	8080	Semi-Annual[2]

Metals	Method[1]	Frequency
Arsenic	6010	Semi-Annual
Copper	6010	Semi-Annual
Zinc	6010	Semi-Annual

Notes:

1. Test methods per Methods for Chemical Analysis of Water and Waste, USEPA 600/4/79/029, revised March 1983, or Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods, USEPA SW-846, 3rd edition, November 1986 and revisions.

2. Analysis of groundwater shall be conducted during the October 2002 sampling event. Any identified impaired groundwater monitoring wells shall be analyzed semi-annually, thereafter. All other groundwater monitoring wells shall be monitored once every 5 years, thereafter.